

# UMMS TRANSGENIC ANIMAL MODELING CORE (TAMC)

## TERATOMA ASSAY WITH HUMAN IPS CELLS

### MODULE I

- Expansion of iPS cells either from frozen stock or cells in culture
- Generation of a frozen cell pellet, which is sent to IDEXX Laboratory for pathogen screen (Impact III panel).
- Subsequent expansion of clone to sufficient cell numbers ( $\sim 1.8 \times 10^7$  cells in clusters) to perform the teratoma assay.

The minimum time for Module I is 4 weeks (including testing).

**Charges: \$600.00 (plus \$375 for IDEXX pathogen screen)**

### MODULE II

- Suspension of iPS cells ( $1.8 \times 10^7$  cells) prepared by TAMC or provided on ice by investigator (prepared according to TAMC protocol) will be mixed with matrigel and immediately injected in nude-SCID gamma (NSG) mice or nude-Swiss mice at two sub-cutaneous sites per mouse. Three mice will be used to assay each clone.
- Mice will be monitored every other day for signs of tumor growth.
- Teratomas will be harvested from these mice when they reach 2-3 cm<sup>2</sup> in size, or between 4-6 weeks, or if mass begin to ulcerate (whichever comes first). Each teratoma will be dissected and a representative portion snap-frozen for RNA analysis. The remainder will be fixed in phosphate-buffered formalin.
- Fixed and frozen samples of each teratoma will be provided to the Investigator for subsequent analysis. If requested, the TAMC can arrange for histology and pathological analyses for an additional charge.

The minimum time for Module II is 4-6 weeks. All cells used in a teratoma assay MUST first be tested for pathogens as per UMMS IACUC regulations.

**Charges: \$1,200.00 per cell line**

PI Name \_\_\_\_\_

Department \_\_\_\_\_

Account Number \_\_\_\_\_

Number of Lines \_\_\_\_\_

Date Received \_\_\_\_\_

**Total Charges \$** \_\_\_\_\_

Notes:

X \_\_\_\_\_

**UMMS Investigator**

**Date**

X \_\_\_\_\_

**UMMS TAMC**

**Date**